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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,336 10/14/2003		Robert D. Keefover	DKT 03016 (BWI-00087) 1254		
75	90 03/09/2006		EXAMINER		
Patent Docket	Administator	AURORA, REENA			
BorgWarner Inc 3850 Hamlin Ro			ART UNIT PAPER NUM		
Auburn Hills, N			2862		
		DATE MAILED: 03/09/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	No.	Applicant(s)			
		10/685,336		KEEFOVER ET A	L.			
Office Action Summary			Examiner	-	Art Unit			
		1	Reena Auro	ra	2862			
Period fo	The MAILING DATE of this commun or Reply	ication appe	ears on the d	over sheet with the c	orrespondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) file	ed on <u>19 De</u>	cember 200	<u>05</u> .				
′—	•	 2b)⊠ This a		_				
3)	Since this application is in condition	for allowand	ce except fo	r formal matters, pro	secution as to the	e merits is		
	closed in accordance with the practi	ice under <i>Ex</i>	x parte Qua	/le, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims							
4)⊠	Claim(s) 1 - 22 is/are pending in the	application						
	4a) Of the above claim(s) is/a	re withdraw	n from cons	ideration.				
5)⊠	Claim(s) 8 and 19 - 22 is/are allowe	d.						
	Claim(s) <u>1,2,5-7,9,12-15, 18</u> is/are							
-	Claim(s) 3,4,10,11,16 and 17 is/are							
8) 🗌	Claim(s) are subject to restrict	ction and/or	election red	juirement.				
Applicati	ion Papers							
	The specification is objected to by th							
10)⊠	The drawing(s) filed on 19 December					niner.		
	Applicant may not request that any obje							
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected t	o by the Exa	aminer. Not	e the attached Office	Action or form P	10-152.		
Priority (ınder 35 U.S.C. § 119	•						
	 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 							
	2. Certified copies of the priority	documents	have been	received in Applicati	on No			
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* (* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	it(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice 3) Infor	ce of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date		,	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PT	O-152)		

DETAILED ACTION

This communication is in response to amendment received on 12/19/05.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

Claims 1, 5 - 7, 12, 13, 14 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Lim (5,373,206).

As to claims 1 and 14, Lim discloses a position detection apparatus including a single sensor element (100, fig. 4), said single sensor element (100) providing a sensor signal that varies with the measured parameter; a first output circuit (300) responsive to the sensor signal and providing a first output signal; and a second output circuit (500) responsive to the sensor signal and providing a second output signal, wherein the first and second output signals are two of multiple outputs from the sensor element (100) and wherein system diagnostics are performed without two or more sensors (col. 3, line 35 – col. 4, line 31).

As to claims 5 and 12, Lim discloses that the sensor element is an inductive sensor (col. 4, lines 32 - 34)

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As to claims 6, 7, 13 and 18, Lim discloses that the sensing system monitors the condition of a parameter or component in a vehicle (col. 3, lines 35 - 44)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 9 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim (5,373,206) in view of Norgauer (5,136,880).

As to claims 2, 9 and 15, Lim fails to show shared circuits coupled to the sensor element and the first and second outputs circuits, the shared circuits including circuit elements used by both the first and second output circuits. Norgauer discloses an arrangement for detecting a changing operating parameter including shared circuits (34, 36, fig. 1) coupled to the sensor element (16) and the first and second outputs circuits (28, 30), the shared circuits (34, 36) including circuit elements used by both the first and second output circuits (28, 30). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the device of Lim with the teachings of Norgauer to include shared circuits to used by sensor element and first and second output circuits to reduce the size of the device by reducing the number of components.

Allowable Subject Matter

Claim 8 and 19 - 22 are allowed.

Claims 3, 4, 10, 11, 16 and 17 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1 - 22 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Reena Aurora whose telephone number is 571-272-2263. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, E. Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Reena Aurora